# User's manual

## 5301 series video amplifier

1 Introduce

5301 is a video distribution amplifier, and can amplify video signal in a balanced manner, it is used in remote video signal transmission system to raise and balance signal loss and frequency distortion, and compatible with white/black and color video.

**2 Notes**

1). Don't uninstall the case
Maintenance needs qualified worker, so don't try to open the box.
2). Light put and light take
5301 is a precise electronical product, so big shake and collision can't be allowed.
3). Don't expose it in rain and damp environment.
4). Forbid using acidic cleanser to clear the product. But you can use soft towel to swab it.
5). Make sure it works under allowed temperature, humidity and voltage.

**3 Installations**

1). Connect 12VDC to it, then power led should be light.
2). Connect input video to "VIDEO IN" BNC.
3). Connect output video to "VIDEO OUT"BNC.
4). After the above operations are completed, you can adjust gain up to output video voltage is $1V_{P-P}$, then adjust HFGAI(definition). You can repeat these operations up to the satisfied result.

**4.0 Technique Specification**

**Electronical specification**

(The following specifications are figured out under 75ohm output load)
Input voltage: DC12V
Input/output load: 75ohm
Input connector: 1 BNC
Output connector: 1 BNC
Frequency response: adjustable.
Bandwidth (-3db): 10 Hz to 7.5 MHz.
Gain: adjustable and max up to 6dB
Max output video voltage: 2.5 Vp-p.

**Mechanical specification**

Dimensions:
Height: 25 mm
Width: 85 mm
Length: 95 mm
Weight: 0.5 kg
Box: thin mental

**Environmental specification**

Temperature: 14 to 113 °F (-10 to 45 °C).
Humidity: max up to 90%